

CINCINNATI, OHIO 45202

HEALTH HAZARD EVALUATION REPORT 73-65
HOERNER WALDORF CORPORATION OF MONTANA
MISSOULA, MONTANA

JUNE 1973

I. SUMMARY DETERMINATION

Section 20(a)(6) of the Occupational Safety and Health Act of 1970, 29 U.S.C. 669(a)(6), authorizes the Secretary of Health, Education, and Welfare, following a written request by any employer or authorized representative of employees, to determine whether any substance normally found in the place of employment has potentially toxic effects in such concentrations as used or found.

The National Institute for Occupational Safety and Health (NIOSH) received such a request from an authorized representative of employees to determine the potential of heat stress and exposure to smoke and fumes from improperly sealed boiler at the #3 Recovery Building at the Hoerner Waldorf Corporation of Montana.

A NIOSH industrial hygienist conducted an observational and an environmental survey of this facility on June 7 and 8, 1973. Based on information obtained at this time, hazards did not exist in the area evaluated, which was identified as #3 Recovery Building test station at the boiler exit.

During the environmental evaluation, samples were taken with a Drager hand pump and direct reading tubes. The following substances were checked for their presence at various intervals during a three-hour period: Nitrogen dioxide, sulphur dioxide, carbon monoxide, and hydrogen sulfide. All sample results were negative.

Established health standards for the above-mentioned compounds are listed below:

<u>Substance</u>	<u>Eight Hour Time-Weighted Concentration</u>	
	ppm ^a	mg/M ³ ^b
Nitrogen Dioxide	5	9
Sulphur Dioxide	5	13
Carbon Monoxide	50	55
Hydrogen Sulfide	20 ^c	--

^a Parts of vapor or gas per million parts of contaminated air by volume at 25° C. and 760 mm Hg pressure.

^b Approximate milligrams of compound per cubic meter of air.

^c Ceiling concentration and shall never be exceeded.

Copies of this Summary Determination of the evaluation are available upon request from the Hazard Evaluation Services Branch, NIOSH, U.S. Post Office Building, Room 508, 5th and Walnut Streets, Cincinnati, Ohio 45202. Copies have been sent to:

- a) Hoerner Waldorf Corporation of Montana
- b) Authorized Representative of Employees
- c) U.S. Department of Labor - Region VIII

For purposes of informing the approximately two or three "affected employees," the employer will promptly "post" the Summary Determination in a prominent place(s), near where affected employees work, for a period of 30 calendar days.